



AMCA 202-17

Troubleshooting



Air Movement and Control Association International

AMCA Corporate Headquarters

30 W. University Drive, Arlington Heights, IL 60004-1893, USA
communications@amca.org ■ Ph: +1-847-394-0150 ■ www.amca.org

© 2017 Air Movement & Control Association International

This is a preview. [Click here to purchase the full publication.](#)

AMCA Publication 202-17

Troubleshooting



Air Movement and Control Association International
30 West University Drive
Arlington Heights, Illinois
60004

This is a preview. [Click here to purchase the full publication.](#)

AMCA Publications

Authority AMCA Publication 202-17 was adopted by the membership of the Air Movement and Control Association International Inc. on February 28, 2017

Copyright © 2017 by the Air Movement and Control Association International Inc.

All rights reserved. Reproduction or translation of any part of this work beyond that permitted by Sections 107 and 108 of the United States Copyright Act without the permission of the copyright owner is unlawful. Requests for permission or further information should be addressed to the executive director, Air Movement and Control Association International Inc. at 30 West University Drive, Arlington Heights, IL 60004-1893 U.S.

Objections The Air Movement and Control Association (AMCA) International Inc. will consider and take action upon all written complaints regarding its standards, certification programs or interpretations thereof. For information on procedures for submitting and handling complaints, write to

AMCA International
30 West University Drive
Arlington Heights, IL 60004-1893 U.S.A.

European AMCA
Avenue des Arts, numéro 46
à Bruxelles (1000 Bruxelles)

Asia AMCA Sdn Bhd
No. 7, Jalan SiLC 1/6,
Kawasan Perindustrian SiLC Nusajaya,
Mukim Jelutong, 79200 Nusajaya, Johor
Malaysia

Disclaimer AMCA uses its best efforts to produce publications for the benefit of the industry and the public in light of available information and accepted industry practices. However, AMCA does not guarantee, certify or assure the safety or performance of any products, components or systems tested, designed, installed or operated in accordance with AMCA publications or that any tests conducted under its publications will be non-hazardous or free from risk.

Review Committee

Marcel Kamutzki (Chair)	Daltec Process Fans
James McNeill Shaw	Howden North America Inc.
David Ortiz Gomez	Soler & Palau SA de C.V
Jaime Yeh	Twin City Fan Companies
Trent Taylor	Northern Blower
Roberto Arias	ZITRON, S.A.
Fernando A. Ruiz	Equipos Electromecanicos, S.A. de C.V.
Joe Brooks	AMCA International Staff

Contents

- Troubleshooting 1
- 1. Introduction 1
 - 1.1 Purpose1
 - 1.2 Scope1
- 2. Procedure for Troubleshooting..... 1
- 3. Safety Precautions 1
- 4. System Checklist 2
- 5. Fan Manufacturer Analysis..... 9
 - 5.1 Data required for analysis9
 - 5.2 Fan manufacturer actions11
- 6. Conclusion 12
- Master Troubleshooting Annexes 13
- Annex A Noise 13
- Annex B Insufficient Airflow 16
- Annex C Airflow High (Too Much Airflow) 18
- Annex D Static Pressure Wrong 19
- Annex E Power High 21
- Annex F Fan Does Not Operate 22
- Annex G Premature Failure 23
- Annex H Vibration..... 25